

## Teacher Guide: Element Builder



### Learning Objectives

Students will...

- Compare the sizes, charges, and relative positions of the subatomic particles: protons, neutrons, and electrons.
- Relate an atom's number of protons to its charge, name, and atomic number.
- Calculate the mass number of an atom by summing the protons and neutrons.
- Understand the definition of isotope.
- Observe how electrons fill the first three energy levels.
- Create an electron dot diagram for each of the first 20 elements.



### Vocabulary

atom, atomic number, electron, electron dot diagram, element, energy level, ion, isotope, mass number, neutron, nucleus, periodic table, proton, radioactive, valence electrons

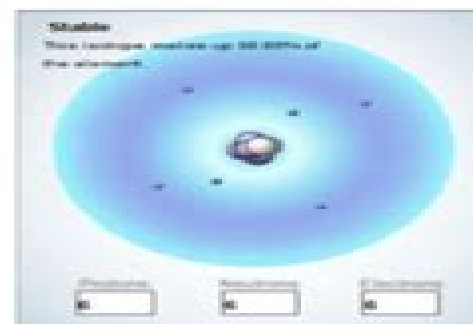


### Lesson Overview

The *Element Builder Gizmo™* allows students to construct atoms by adding protons, neutrons, and electrons. As they add particles, students can see the atomic number, mass number, charge, and electron dot diagram of the element.

The Student Exploration sheet contains two activities and an Extension:

- **Activity A** – Students determine the mass number and atomic number of an atom.
- **Activity B** – Students observe electron arrangements and create electron dot diagrams.
- **Extension** – Students see how valence electrons relate to the periodic table of elements.



Model of a carbon atom



### Suggested Lesson Sequence

#### 1. Pre-Gizmo activity

(📅 1 – 2 weeks)

Atoms are too tiny to see, yet much about their structure had been deduced by the early part of the twentieth century. The development of atomic theory is one of the central narratives of physics and well worth learning more about.

Divide the class into groups and assign to each group one of the critical scientists involved in atomic theory. These could include Democritus, John Dalton, Dmitri Mendeleev, J.J. Thomson, Robert Millikan, Ernest Rutherford, Marie Curie, James Chadwick, Niels Bohr, Enrico Fermi, and others (see **Selected Web Resources**).

After researching their scientist via the Internet, students can present their findings with posters, atom models, and even reenactments of famous experiments.

# Element Builder Guide

**Pasquale De Marco**



## Element Builder Guide:

**The Unofficial LEGO Builder's Guide, 2nd Edition** Allan Bedford, 2012-11-12 What's the difference between a tile and a plate? Why isn't it a good idea to stack bricks in columns to make a wall? How do you build a LEGO mosaic or build at different scales? You'll find the answers to these and other questions in *The Unofficial LEGO Builder's Guide*. Now in full color, this brand new edition of a well-loved favorite will show you how to construct models that won't fall apart. Choose the right pieces and substitute when needed. Build to micro, jumbo, and miniland scale. Make playable board games out of LEGO pieces. Create photo mosaics and curved sculptures. Build a miniature space shuttle, a minifig-sized train station, and more. Of course, the real fun of LEGO building lies in creating your own models, from choosing the subject to clicking that final brick into place. Learn how in *The Unofficial LEGO Builder's Guide*. Includes the Brickopedia, a visual dictionary of nearly 300 of the most commonly used LEGO elements. *The Complete LEGO Builder's Guide: Tips and Techniques to Elevate Your Building Skills* Deena Adkins, 2025-04-04 Discover the endless possibilities of LEGO building with this essential guide designed to inspire and educate enthusiasts of all ages. Whether you are a novice or a seasoned builder, this book provides comprehensive insights and practical advice to elevate your LEGO creations to new heights. Unleash your creativity as you explore a variety of techniques that transform simple bricks into stunning masterpieces. The book covers an array of topics that cater to builders at every skill level. Delve into the fundamentals of LEGO building, from understanding different brick types and their uses to mastering advanced building techniques. Learn how to design and construct intricate models, landscapes, and even functional machines. The techniques are illustrated with clear step-by-step instructions and accompanied by vibrant images that bring each concept to life. Discover innovative ways to use color, texture, and space to enhance your builds and gain confidence in tackling complex projects. Why invest your time in this book? *The Complete LEGO Builder's Guide* stands out as a valuable resource for anyone passionate about LEGO. Unlike other guides that merely scratch the surface, this book offers an in-depth exploration of building techniques combined with practical tips that can be applied immediately. Technical Manual United States Department of the Army, 1975 The Green Guide to Specification Jane Anderson, David Shiers, 2009-03-09 Like its predecessors, this fourth edition of *The Green Guide to Specification* provides designers and specifiers with easy-to-use guidance on how to make the best environmental choices when selecting construction materials and components. It is more comprehensive than its predecessors; it contains more than 1200 specifications used in six types of building: Commercial buildings such as offices; Educational buildings such as schools and universities; Healthcare buildings such as hospitals; Retail; Residential; Industrial. The principal building elements covered in this edition of *The Green Guide to Specification* include Floors, Roofs, Walls, Windows, Insulation, Landscaping. The performance of each specification is measured against a range of environmental impacts including climate change, toxicity, fossil fuel, and ozone depletion levels of emissions and pollutants, mineral and water extraction. *The Green Guide to Specification* provides robust information to assist decision

making by translating numerical life cycle assessment data into a simple A to E scale of environmental ratings enabling specifiers to make meaningful comparisons between materials and components The Green Guide to Specification is an essential tool for architects surveyors building managers and property owners seeking to reduce the environmental impact of their buildings by informed and responsible selection of construction materials and components **Home Builder's Guide to Coastal Construction - Technical Fact Sheet Series**, 2010 **Shaker Furniture: A Guide to Building and Finishing Timeless Designs** Pasquale De Marco, 2025-08-09 Discover the timeless beauty and enduring appeal of Shaker furniture in this comprehensive guide With its focus on simplicity functionality and craftsmanship Shaker furniture has captured the hearts and minds of furniture enthusiasts for centuries This book delves into the rich history of Shaker furniture tracing its roots in the Shaker movement of the 18th century You ll learn about the Shaker beliefs and values that shaped the design and construction of their furniture making it a reflection of their communal lifestyle and dedication to quality craftsmanship Beyond its historical significance the book provides a practical exploration of Shaker furniture elements and techniques From the clean lines and unadorned surfaces to the emphasis on functionality and durability you ll gain a deep understanding of what makes Shaker furniture so distinctive With step by step instructions and detailed illustrations the book guides you through the process of building your own Shaker inspired pieces Whether you re a seasoned woodworker or just starting out you ll find projects suitable for all skill levels From beginner friendly boxes and peg rails to advanced projects like Shaker beds and desks the book empowers you to bring the beauty of Shaker design into your own home In addition to the practical aspects of Shaker furniture the book also explores its influence on modern design and its enduring popularity You ll discover how Shaker principles have inspired contemporary furniture makers and how you can incorporate Shaker elements into your own home decor Whether you re a woodworking enthusiast a lover of Shaker history or simply appreciate the beauty of timeless design this book is an invaluable resource With its comprehensive coverage and engaging writing style it will guide you on a journey into the world of Shaker furniture inspiring you to create your own pieces that embody its enduring legacy If you like this book write a review [Mastering LEGO: The Ultimate Handbook for Aspiring Builders](#) Marsha Gutierrez, 2025-04-04 Discover the fascinating world of LEGO building with this comprehensive guide designed to inspire and educate aspiring builders This book is your gateway to unlocking the creativity and technical skills needed to create impressive LEGO structures Whether you re a novice or have some experience you ll find valuable insights and techniques to elevate your LEGO projects to new heights Dive into a wealth of practical knowledge that covers everything from the basics of LEGO building to advanced construction methods Learn about the different types of LEGO bricks and their uses understand the principles of structural integrity and explore innovative design strategies With step by step instructions and detailed illustrations you ll gain the confidence to bring your imaginative ideas to life This handbook addresses a common challenge many builders face transforming their vision into a tangible LEGO model By breaking down

complex concepts into manageable steps the book empowers you to overcome obstacles and refine your building skills You ll discover tips for selecting the right pieces planning your builds and troubleshooting common issues ensuring that each project is a success Explore the creative process behind some of the most stunning LEGO creations [BIM Handbook](#) Charles M. Eastman,2011-04-19 The BIM Handbook presents the technology and processes behind BIM and how architects engineers contractors and sub contractors construction and facility owners AECO can take advantage of the new technology and work process Unlike CAD BIM is a major paradigm shift in the documentation work processes and exchange of project information It facilitates collaboration and further automation in both design and construction AEC professionals need a handbook to guide them through the various BIM technologies and related processes The collaborative nature of BIM requires professionals to view BIM from various industry perspectives and understand how BIM supports multiple project participants The BIM Handbook reviews BIM processes and tools from multiple perspectives the owner architects and engineers contractors subcontractors and fabricators [High Performance Building Guidelines](#) Andrea Woodner,2000 High performance buildings maximize operational energy savings improve comfort health design process site design building energy use indoor environment material water mgmt construction admin commissioning operations maintenance [BIM Handbook](#) Rafael Sacks,Charles Eastman,Ghang Lee,Paul Teicholz,2018-07-03 Discover BIM A better way to build better buildings Building Information Modeling BIM offers a novel approach to design construction and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format BIM is beginning to change the way buildings look the way they function and the ways in which they are designed and built The BIM Handbook Third Edition provides an in depth understanding of BIM technologies the business and organizational issues associated with its implementation and the profound advantages that effective use of BIM can provide to all members of a project team Updates to this edition include Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working national and major construction clients BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling the BIM Handbook Third Edition guides readers to successful implementations helping them to avoid needless frustration and costs and take full advantage of this paradigm shifting approach to construct better buildings that consume fewer materials and require less time labor and capital resources **The Facility Management Handbook** David G. COTTS PE, CFM,Kathy O. ROPER CFM, LEED AP,Richard P. PAYANT CFM, CPE,2009-07-22 Based on best practices and proven research The Facility Management Handbook has long been the go to resource for professionals in the field Extensively updated for the realities of today s workplace the third edition provides readers with the tools and guidance they need to

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Planning and Design of Outdoor Recreation Facilities United States. Department of the Army, 1975

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